

**Flood Control Project Maintenance
Levee Inspections**

Fall 2012 Levee Maintenance Deficiency Summary Report

Overall LMA & Unit Ratings, including USACE Erosion Survey

Sacramento River Basin

ST0009	Overall LMA Rating	Total LMA Miles						
Sutter Maintenance Yard Tisdale Bypass	A	8.93						
Rated Item	Maintenance Deficiency				Enforcement		Design & System Obsolescence	
	M Miles	U Miles	M + 4U Miles	Threshold %	M Miles	U Miles	M Miles	U Miles
<i>Earthen Levee</i>								
Encroachments					3.28			
Animal Control	0.01		0.01	0.11%				
Erosion / Bank Caving	0.01		0.01	0.11%				
<i>LMA Totals:</i>	0.02	0.00	0.02	0.22%	3.28	0.00	0.00	0.00
Unit No. 01 Tisdale Bypass LB	Overall Unit Rating	Total Unit Miles						
ST0009	A	4.50						
Rated Item	Maintenance Deficiency				Enforcement		Design & System Obsolescence	
	M Miles	U Miles	M + 4U Miles	Threshold %	M Miles	U Miles	M Miles	U Miles
<i>Earthen Levee</i>								
Encroachments					1.92			
<i>Unit Totals:</i>	0.00	0.00	0.00	0.00%	1.92	0.00	0.00	0.00
Unit No. 02 Tisdale Bypass RB	Overall Unit Rating	Total Unit Miles						
ST0009	A	4.43						
Rated Item	Maintenance Deficiency				Enforcement		Design & System Obsolescence	
	M Miles	U Miles	M + 4U Miles	Threshold %	M Miles	U Miles	M Miles	U Miles
<i>Earthen Levee</i>								
Encroachments					1.36			
Animal Control	0.01		0.01	0.23%				
Erosion / Bank Caving	0.01		0.01	0.23%				
<i>Unit Totals:</i>	0.02	0.00	0.02	0.45%	1.36	0.00	0.00	0.00

**Flood Control Project Maintenance
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LMA District Cover Sheet
Fall 2012 Levee Inspection Results

Sutter Maintenance Yard Tisdale Bypass

	Spring (March - May)	Summer ** (June - August)	Fall (September - November)	Winter ** (December - February)
* Overall LMA Rating (Fall Only)			A	

** Non-receipt of Summer or Winter Inspection Reports may effect overall annual rating.

*
SPRING INSPECTIONS: Overall maintenance ratings are not determined for the spring inspection results. Individual maintenance deficiencies are rated using the same criteria in the spring and in the fall.

FALL INSPECTIONS: The overall maintenance rating shown above is based on operation and maintenance deficiencies identified within the attached unit inspection reports.

Comments

**Flood Control Project Maintenance
Levee Inspections**

Unit Cover Sheet

Fall 2012 Levee Inspection Results

Sutter Maintenance Yard Tisdale Bypass

Waterway			Bank	Unit Miles
Unit No. 01 Tisdale Bypass			Left	4.50
	Spring (March - May)	Summer (June - August)	(September - November) Fall	Winter (December - February)
Unit Maintenance Rating (Fall Only)			A	
Date of Inspection	03/29/2012 - 03/29/2012		10/23/2012 - 10/23/2012	
DWR Inspector	Bob Duffey		Bob Duffey	
Accompanied By	Steve Beckley Sutter Yard		Steve Beckley Sutter Yard	

Summer & Winter Inspections

The Local Maintaining Agency (LMA) is responsible for summer and winter inspections. The LMA is required to submit a report regarding summer and winter inspections to the California Department of Water Resources (DWR).

DWR must be informed on the:

- a) completion of the inspection
- b) any changes other than the results of normal maintenance
- c) corrections to deficiencies noted in this report

If additional items are noted, further documentation of those items must also be submitted.

The LMA should submit this information to DWR using the LMA web application tool available at:

<http://cdec.water.ca.gov/lma.html>

If the LMA is unable to submit information on this webpage, please contact DWR for assistance.

The LMA should submit the information and any associated documentation by September 30 for summer inspections and March 31 for winter inspections.

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2012

Sutter Maintenance Yard Tisdale Bypass

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Tisdale Bypass	Left	4.50	10/23/2012 10/23/2012	Bob Duffey

Levee Mile Report Line	4
Start Levee Mile	2.18
End Levee Mile	4.10
Location	Land Side
Category	Earthen Levee
Item	Encroachments

View of the PG&E poles along the landside crown of the levee.

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Levee Mile Report Line	5
Start Levee Mile	2.77
End Levee Mile	2.77
Location	Water Side
Category	Earthen Levee
Item	Vegetation

View of the levee with no vegetation on both slopes.

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*** Location**

LS : Land Side
WS : Water Side
CR : Crown

**** Rating**

A : Acceptable
M : Minimally Acceptable
U : Unacceptable
N : Not Inspected/Rated
C : Corrected
A/W : Acceptable but Monitor & Maintain

+ Issue Type

Ma : Maintenance Deficiency
Ob : Design & System Obsolescence
En : Enforcement

**Flood Control Project Maintenance
Levee Inspections**

Unit Cover Sheet

Fall 2012 Levee Inspection Results

Sutter Maintenance Yard Tisdale Bypass

Waterway			Bank	Unit Miles
Unit No. 02 Tisdale Bypass			Right	4.43
	Spring (March - May)	Summer (June - August)	(September - November) Fall	Winter (December - February)
Unit Maintenance Rating (Fall Only)			A	
Date of Inspection	03/29/2012 - 03/29/2012		10/23/2012 - 10/23/2012	
DWR Inspector	Bob Duffey		Bob Duffey	
Accompanied By	Steve Beckley Sutter Yard		Steve Beckley Sutter Yard	

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**Flood Control Project Maintenance
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Levee Inspection Report By Mile - Fall 2012

Sutter Maintenance Yard Tisdale Bypass

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Tisdale Bypass	Right	4.43	10/23/2012 10/23/2012	Bob Duffey

LMR No.	Levee Mile		Category	Item	Location *	Rating **	Action/Comment	GPS Latitude/Longitude		Issue No.
	Start	End						Start	End	
1	0.11	0.25	Earthen Levee	Encroachments	LS	M En	DT : Ditch	39.023760 ° -121.818875 °	39.024559 ° -121.816344 °	1 Y
DWR ID: DWR_ST0009_02_s_2012_1										
2	0.52	1.74	Earthen Levee	Encroachments	LS	M En	DT : Ditch	39.025539 ° -121.811540 °	39.025398 ° -121.789006 °	2 Y
DWR ID: DWR_ST0009_02_s_2012_2										
3	1.01	1.01	Earthen Levee	Erosion / Bank Caving	WS	M Ma	E1 : Note and monitor erosion site.	39.025542 ° -121.802468 °	39.025542 ° -121.802468 °	3 Y
DWR ID: DWR_ST0009_02_s_2012_3										
4	2.53	2.53	Earthen Levee	Animal Control	WS	M Ma	A3 : No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.	39.025271 ° -121.774186 °	39.025271 ° -121.774186 °	7 Y
DWR ID: DWR_ST0009_02_f_2012_7										

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+ Issue Type

Ma : Maintenance Deficiency
Ob : Design & System Obsolescence
En : Enforcement

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2012

Sutter Maintenance Yard Tisdale Bypass

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Tisdale Bypass	Right	4.43	10/23/2012 10/23/2012	Bob Duffey

Levee Mile Report Line	1
Start Levee Mile	0.11
End Levee Mile	0.25
Location	Land Side
Category	Earthen Levee
Item	Encroachments

View of the agriculture ditch and erosion along the landside toe of the Levee.

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Levee Mile Report Line	2
Start Levee Mile	0.52
End Levee Mile	1.74
Location	Land Side
Category	Earthen Levee
Item	Encroachments

View of the ag ditch next to the L/S toe.

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Levee Mile Report Line	3
Start Levee Mile	1.01
End Levee Mile	1.01
Location	Water Side
Category	Earthen Levee
Item	Erosion / Bank Caving

View of the erosion along the waterside toe of the levee.

rduffey_f_20120911_303.jpg



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**Flood Control Project Maintenance
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Levee Inspection Report By Mile - Fall 2012

Sutter Maintenance Yard Tisdale Bypass

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Tisdale Bypass	Right	4.43	10/23/2012 10/23/2012	Bob Duffey

Levee Mile Report Line	4
Start Levee Mile	2.53
End Levee Mile	2.53
Location	Water Side
Category	Earthen Levee
Item	Animal Control

View of the rodent holes along the landside slope.

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* Location LS : Land Side WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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